

WHAT IS CLAIMED IS:

1. A production management method for performing parallel production in a plurality of production lines, comprising the steps of:
  - storing order information concerning an order volume and a delivery time thereof from a purchaser;
  - 5 storing cease period information concerning a cease period of a production line;
  - storing authentication information concerning authentication of a production line from the purchaser;
  - detecting a volume in process in said plurality of production lines;
  - 10 calculating an additional input volume on the basis of said volume in process and said order volume;
  - calculating a scheduled production completion date in consideration of said cease period for an input lot for which said authentication information is obtained; and
  - 15 allocating said input lot to said order information on the basis of said scheduled production completion date and said delivery time.
2. The production management method according to claim 1, further comprising the steps of:
  - calculating the number of good products in consideration of a product yield for said input lot for which said authentication information is
  - 5 obtained; and
  - allocating said input lot to said order information on the basis of a relation between said scheduled production completion date and said delivery time, and a relation between said order volume and said number of good products.
3. The production management method according to claim 1, wherein
  - said step of allocating said input lot to said order information includes a step of allocating said input lot to said order information in

5      chronological order of delivery time.

4.    The production management method according to claim 2,  
wherein

5      said step of allocating said input lot to said order information  
includes a step of allocating said input lot to said order information in  
chronological order of delivery time.

5.    The production management method according to claim 1,  
further comprising the step of:

storing information concerning priorities of said plurality of  
production lines, wherein

5      said step of allocating said input lot to said order information  
includes a step of allocating said input lot to said order information in  
consideration of said priorities.

6.    The production management method according to claim 2,  
further comprising the step of:

storing information concerning priorities of said plurality of  
production lines, wherein

5      said step of allocating said input lot to said order information  
includes a step of allocating said input lot to said order information in  
consideration of said priorities.

7.    The production management method according to claim 3,  
further comprising the step of:

storing information concerning priorities of said plurality of  
production lines, wherein

5      said step of allocating said input lot to said order information  
includes a step of allocating said input lot to said order information in  
consideration of said priorities.

8.    The production management method according to claim 4,

further comprising the step of:

storing information concerning priorities of said plurality of production lines, wherein

- 5        said step of allocating said input lot to said order information includes a step of allocating said input lot to said order information in consideration of said priorities.

9. The production management method according to claim 1, further comprising the step of:

setting a product yield in a production line, whose usage is not allowed, out of said plurality of production lines to 0%.

10. The production management method according to claim 2, further comprising the step of:

setting a product yield in a production line, whose usage is not allowed, out of said plurality of production lines to 0%.

11. The production management method according to claim 3, further comprising the step of:

setting a product yield in a production line, whose usage is not allowed, out of said plurality of production lines to 0%.

12. The production management method according to claim 4, further comprising the step of:

setting a product yield in a production line, whose usage is not allowed, out of said plurality of production lines to 0%.

13. The production management method according to claim 5, further comprising the step of:

setting a product yield in a production line, whose usage is not allowed, out of said plurality of production lines to 0%.

14. The production management method according to claim 6,

further comprising the step of:

setting a product yield in a production line, whose usage is not allowed, out of said plurality of production lines to 0%.

15. The production management method according to claim 7, further comprising the step of:

setting a product yield in a production line, whose usage is not allowed, out of said plurality of production lines to 0%.

16. The production management method according to claim 8, further comprising the step of:

setting a product yield in a production line, whose usage is not allowed, out of said plurality of production lines to 0%.